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Apprenticeship Subject Pathways

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Une publication équivalente est disponible en français sous le titre suivant : *Itinéraires d'apprentissage de métiers.*

This publication is available on the website of the Ministry of Education and the Ministry of Training, Colleges and Universities, at http://www.edu.gov.on.ca.

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INTRODUCTION

Apprenticeship Subject Pathways is a resource that will help educators, students, and parents determine which English, mathematics, and science secondary school courses would most benefit students who intend to begin an apprenticeship upon graduation. The pathways were arrived at by aligning the academic skills inventories for trades that are identified in Evaluating Academic Readiness for Apprenticeship Training (EARAT), a series of documents developed by the Ministry of Training, Colleges and Universities, with the learning expectations that are outlined in the Ontario secondary school curriculum policy documents for English, mathematics, and science.

The courses identified in this document are not mandatory for entrance into the trades for which they are being recommended, nor will following these course recommendations guarantee success in a chosen trade.

While the main purpose of *Apprenticeship Subject Pathways* is to provide information about the kinds of academic achievement advisable for preparing for an apprenticeship, it is also hoped that this resource guide will foster greater understanding of the trades and of the academic skills that journeypersons need to do their jobs.

Subject pathway recommendations are provided for 56 trades, which are divided among four sectors: construction (21), industrial (12), motive power (12), and service (11). Each subject pathway chart in this document indicates the English, mathematics, and/or science courses recommended in each of Grades 9 to 12 in preparation for one of these trades. This alignment of secondary school courses with apprenticeship destinations is possible because of the clear standards set out in both EARAT and the Ontario secondary school curriculum.

Note that students in Grades 9 and 10 can establish a firm foundation for their apprenticeship goal by choosing either the academic or the applied course in English, mathematics, and/or science. For students in Grades 11 and 12, on the other hand, one specific course in each of these subjects, where applicable, is recommended.

Entry into an apprenticeship requires the completion of Grade 8, Grade 10, or Grade 12, depending on the trade. The grade requirement for each trade is identified in this document at the top of the pathway chart for that trade. Note, however, that employers in any trade may require that individuals be secondary school graduates as a condition of employment.

Although the majority of the course recommendations made in this document are for workplace preparation courses, there are some exceptions. For instance, several trades in the industrial sector require complex skills in mathematics. College preparation mathematics courses are, therefore, identified for apprenticeships in these trades. Another exception concerns the child and youth worker and early childhood educator apprenticeships. While college preparation courses are the primary English course recommendations for these trades, additional English courses are also recommended. These additional courses are identified because they would enable students to further develop the communication skills that are needed in these trades.

Experiential learning opportunities are also identified on the pathway charts. These opportunities, which allow students in Grades 9 to12 to explore a career in a trade, include job shadowing, work experience, cooperative education, and the Ontario Youth Apprenticeship Program (OYAP). In OYAP students who are 16 years of age or older and who have completed 16 credits towards their Ontario Secondary School Diploma can continue to meet their diploma requirements as they complete apprenticeship training.

The Ministry of Training, Colleges and Universities develops new apprenticeships as they are required by business and industry. Though apprenticeships in more than 130 trades are available in Ontario, nearly 90 per cent of apprentices in the province are completing apprenticeship training in the 56 trades focused on in this document.

More information about apprenticeship opportunities in specific areas of Ontario is available from the local apprenticeship offices listed on page vi.

The Ontario curriculum has many courses in addition to those listed in this document that support student success in apprenticeships. Examples are information technology in business, technological education, and workplace preparation science courses.

Students, parents, guidance counsellors, teacher-advisers, and classroom teachers may use this document as an aid in selecting the most appropriate courses for an apprenticeship destination. This document should not, however, be used as a guide for college entrance requirements for technologist or technician programs.

Apprenticeship Facts

Apprenticeship – What is it and how does it work?

Apprenticeship is a hands-on training program for people who want to work in skilled trades or occupations. About 90 per cent of apprenticeship involves on-the-job training by sponsors of training or employers. The remainder involves related theoretical training, usually obtained at a college of applied arts and technology or another approved training delivery agency. Training agreements between apprentices and their training sponsor or employer are prepared by training consultants of the Ministry of Training, Colleges and Universities. In accordance with legislation, each training agreement is an individualized contract or training plan between a person who wants to learn a skilled trade and a training sponsor or an employer. Apprentices and training sponsors or employers benefit from apprenticeship training. Apprentices learn to become qualified tradespeople or "journeypersons" while training sponsors or employers gain highly skilled employees with up-to-date knowledge and work techniques. Jobs in skilled trades provide challenging work and good careers.

How long does an apprenticeship last?

Most apprenticeships take between two to five years to complete, depending on the trade. At the time of registration, prior education and related work experience are considered where appropriate to potentially reduce the length of the program. Flexible in-school training options are generally available to meet the specific needs of apprentices and their training sponsor or employer.

How do I become an apprentice?

When a person who wants to be an apprentice has found a training sponsor or employer willing to engage in apprenticeship training, either the person or the training sponsor or employer should contact the local apprenticeship office (see next page). A training consultant will arrange a meeting at the workplace to assess the ability of the training sponsor or employer to train, assess the person, prepare the training agreement or contract, and initiate the training.

Can a student start an apprenticeship while attending high school?

Yes. The Ontario Youth Apprenticeship Program (OYAP) offers students who have completed Grade 10 an opportunity to become registered apprentices while finishing high school. Eligible students should contact their guidance counsellor, technical director, or local apprenticeship office for more information.

What is "Interprovincial" designation?

The Interprovincial Standards Program or Red Seal Program was established to provide greater labour mobility for skilled workers who wish to move from one part of Canada to another. It encourages the standardization of provincial/territorial training and certification programs. A Red Seal certificate is recognized by provinces participating in the program. Many Ontario trades are part of the Red Seal Program. In those trades, people who are eligible to challenge the trade examinations may, if successful, receive a Certificate of Qualification with a distinctive red seal that allows them to work in other provinces and territories.

Apprenticeship Offices

For further information about the Ontario Youth Apprenticeship Program (OYAP), contact your guidance counsellor, cooperative education teacher, or technological education teacher.

For further information about apprenticeship opportunities in your area, contact the appropriate Ministry of Training, Colleges and Universities apprenticeship office.

Central District

Toronto . . . . . (416) 326-5800
Pickering . . . . . (905) 837-7721
Mississauga . . . . . (905) 279-7333
Barrie . . . . . (705) 737-1431

Western District

Hamilton . . . . . (905) 521-7764
Brantford . . . . . (519) 756-5197
St. Catharines . . . . . (905) 704-2991
Owen Sound . . . . . (519) 376-5790
London . . . . . (519) 675-7788
Sarnia . . . . . (519) 542-7705
Waterloo . . . . . (519) 571-6009
Windsor . . . . . (519) 973-1441
Chatham . . . . . (519) 354-2766

Eastern District

Ottawa . . . . . (613) 731-7100
Brockville . . . . . (613) 342-5481
Cornwall . . . . . (613) 938-9702
Kingston . . . . . (613) 545-4338
Pembroke . . . . . (613) 735-3911
Peterborough . . . . . (705) 745-1918
Belleville . . . . . (613) 968-5558

Northern District

Sault Ste. Marie . . . . . (705) 945-6815
North Bay . . . . . (705) 495-8515
Sudbury . . . . . (705) 564-3030
Timmins . . . . . (705) 235-1950
Thunder Bay . . . . . (807) 345-8888
Kenora . . . . . (807) 468-2879

Apprenticeship Website Addresses:

www.edu.gov.on.ca
www.youthjobs.gov.on.ca

Training Hotline: . . . 1-888-JOBGROW
1-800-387-5656

Toronto Area . . . . . (416) 326-5656

Construction Sector

Brick and Stone Mason

Though the academic requirement for an apprenticeship in this trade is Grade 8, courses for higher grades are provided for the information of students pursuing secondary school graduation.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Brick and Stone Mason Apprenticeship** Length of Apprenticeship: 3 years Constructs, erects, installs, and repairs walls, arches, paving, floors, fireplaces, chimneys, smokestacks, and other such structures; lays fire brick and other high-temperature materials used in the construction of industrial furnaces, retorts, and boilers.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

The course recommendations in the chart are intended to help students choose courses that would most benefit them if their goal is to enter an apprenticeship upon graduation.

This chart is based on an alignment of the expectations in the Ontario curriculum developed by the Ministry of Education with the knowledge and skills identified in Evaluating Academic Readiness for Apprenticeship Training (EARAT), an academic skills inventory developed by the Ministry of Training, Colleges and Universities. It also makes recommendations about experiential learning opportunities, using the guidelines contained in *Cooperative Education and Other Forms of Experiential Learning: Policies and Procedures for Ontario Secondary Schools, 2000.*

Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

* This course is beneficial for a very limited number of concepts contained in its expectations: these may be acquired through self-study.

Construction Boilermaker

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.

Grade 9	Grade 10	Grade 11	Grade 12
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education

Postsecondary Destination

Construction Boilermaker Apprenticeship

Length of Apprenticeship: 3 to 4 years

Builds and maintains very large tanks, such as boilers and pressure tanks in power stations, refineries, and chemical plants; pollution control devices; furnaces; water towers; and heat exchangers.

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Construction and Maintenance Electrician

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Construction and Maintenance Electrician Apprenticeship** Length of Apprenticeship: 4 to 5 years Lays out, assembles, maintains, connects, and repairs a wide range of electrical equipment, from lighting to security systems.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Domestic and Rural Electrician

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Domestic and Rural Electrician Apprenticeship** Length of Apprenticeship: 3½ years Lays out, assembles, maintains, connects, and repairs a wide range of electrical equipment, from lighting to security systems in residential buildings and structures used for farming.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Drywall, Acoustic, and Lathing Applicator

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Drywall, Acoustic, and Lathing Applicator Apprenticeship** Length of Apprenticeship: 3 to 4 years Installs exterior metal framing and sheeting, mouldings, furring, and lathing products; thermal, fire, sound, and vapour barrier insulation and sealants; moulded and cast forms; acoustical wall and ceiling panels; and interior window and door frames and fixtures.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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General Carpenter

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.

Grade 9	Grade 10	Grade 11	Grade 12
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education

Postsecondary Destination

General Carpenter Apprenticeship

Length of Apprenticeship: 3 to 4 years

Uses hand and power tools; estimates, calculates, and lays out projects; does millwork and joinery; erects foundations, and steel and wood framing; does interior and exterior finishing; installs doors, windows, and hardware components, including electronics and display work; builds stairs, counters, and cupboards; lays flooring; erects scaffolding; installs suspended ceilings; constructs concrete; builds framework; and welds.

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Glazier and Metal Mechanic

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Glazier and Metal Mechanic Apprenticeship** Length of Apprenticeship: 4 years Cuts, fits, and installs glass in wooden and metal frames for a variety of purposes, including glass doors, windows, mirrors, storefronts, aquariums, display cases, skylights, and glass building exteriors.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Heat and Frost Insulator

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Heat and Frost Insulator Apprenticeship** Length of Apprenticeship: 4 years Applies materials to plumbing, heating, cooling, and refrigeration systems; piping equipment; pressure vessels; and the interior surfaces of buildings to prevent or reduce the transmission of heat, cold, sound, and fire.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D			
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Ironworker

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Ironworker Apprenticeship** Length of Apprenticeship: 3 years Reads blueprints and follows instructions to hoist and install structural steel, precast concrete, reinforcing materials, and other metals used in construction.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Mobile Crane Operator

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.

Grade 9	Grade 10	Grade 11	Grade 12
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education

Postsecondary Destination

Mobile Crane Operator Apprenticeship

Length of Apprenticeship: 3 years

Maintains and operates mobile cranes that are capable of raising, lowering, or moving material weighing more than 16,000 pounds.

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Painter and Decorator (Branches 1 and 2)

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Painter and Decorator Apprenticeship** **Branch 1- Commercial and Residential** Length of Apprenticeship: 2½ years Applies wall coverings, paint, and other finishes to the interior and exterior surfaces of buildings, assembles scaffolds to work on ceilings or other high places. **Branch 2- Industrial** Length of Apprenticeship: 2½ years Prepares surfaces and paints factories, bridges, storage tanks, and other types of industrial structures; assembles scaffolds, cradles, ladders, and other structures to form work platforms.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

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Plumber

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Plumber Apprenticeship** Length of Apprenticeship: 4 to 5 years Assembles, installs, maintains, and repairs piping systems, such as water, waste, drains, and vents, including fixtures and appliances for home or industrial use, as well as process piping.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

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Refrigeration and Air-Conditioning Mechanic

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.

Grade 9	Grade 10	Grade 11	Grade 12
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education

Postsecondary Destination

Refrigeration and Air-Conditioning Mechanic Apprenticeship

Length of Apprenticeship: 4½ years

Installs, assembles, and repairs components of large and small refrigeration and air-conditioning systems in residential, commercial and industrial settings; assembles or connects required refrigeration pipes.

The course recommendations in the chart are intended to help students choose courses that would most benefit them if their goal is to enter an apprenticeship upon graduation.

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Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

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Reinforcing Rodworker

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.

Grade 9	Grade 10	Grade 11	Grade 12
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education

Postsecondary Destination

Reinforcing Rodworker Apprenticeship

Length of Apprenticeship: 3 years

Fabricates, handles, sorts, cuts, bends, rigs, places, burns, welds, and ties all materials used to reinforce concrete construction.

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Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

Restoration Mason

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.

Grade 9	Grade 10	Grade 11	Grade 12
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education

Postsecondary Destination

Restoration Mason Apprenticeship

Length of Apprenticeship: 2½ to 3 years

Prepares mortars; cuts out and fills joints; repairs or resets bricks, stone, and terra cotta blocks in ashlar, rubble, and brickwork; drills, grouts, and pins fractured stones; resets copings; carries out washing and mechanical/chemical cleaning.

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Roofer

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Roofer Apprenticeship** Length of Apprenticeship: 2 to 3 years Installs, repairs, and replaces roofing systems, including conventional, inverted built-up, and single- and two-ply modified; performs damp, water, and weather proofing; installs and repairs slate, tile, and shingles; resurfaces roofs.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D			
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Sheet Metal Worker

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Sheet Metal Worker Apprenticeship** Length of Apprenticeship: 4 to 5 years Lays out and makes a sheet metal product from a flat sheet of metal, and installs the product, such as furnace and duct systems in homes, oven and drying systems in an auto plant, heating and ventilating systems in high-rise office towers.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics of Personal Finance, College Preparation MBF3C	College and Apprenticeship Mathematics, College Preparation MAP4C	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Sprinkler and Fire Protection Installer

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Sprinkler and Fire Protection Installer Apprenticeship** Length of Apprenticeship: 3½ to 4 years Lays out, assembles, installs, tests, and maintains high- and low-pressure piping to supply fire protection systems in commercial, residential, and industrial buildings; prepares pipes and fittings.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Steam Fitter

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Steam Fitter Apprenticeship** Length of Apprenticeship: *4 to 5 years* Assembles, installs, maintains, and repairs heating and cooling, process, and industrial systems that convey gases, employ pneumatic tubing, involve air handling, and form the infrastructure of oil refineries and nuclear power plants.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Terrazzo, Tile, and Marble Setter

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Terrazzo, Tile, and Marble Setter Apprenticeship** Length of Apprenticeship: 3 to 4 years Installs terrazzo, tile, granite, and marble slabs on floors and walls.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Tower Crane Operator

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Tower Crane Operator Apprenticeship** Length of Apprenticeship: 2 years Maintains and operates a tower crane.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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INDUSTRIAL SECTOR

Facilities Maintenance Mechanic

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Facilities Maintenance Mechanic Apprenticeship** Length of Apprenticeship: 3 years Inspects and maintains building fire safety equipment, building envelop, electrical, heating, ventilation, air-conditioning, plumbing, and water treatment systems; performs ground maintenance.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Facilities Systems Technician

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Facilities Systems Technician Apprenticeship** Length of Apprenticeship: 4 years Operates, diagnoses, and maintains air-conditioning, ventilation, chiller and refrigeration, water treatment, heating, pumping, low-pressure boiler, and control systems; monitors and operates electrical and plumbing systems; inspects and verifies emergency power, fire suppression, and sprinkler systems.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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General Machinist

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**General Machinist Apprenticeship** Length of Apprenticeship: 3 to 4 years Cuts, shapes, and finishes metal to make machine parts used in all areas of manufacturing; sets up and operates precision metal-cutting machines.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Industrial Electrician

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Industrial Electrician Apprenticeship** Length of Apprenticeship: 4½ years Prepares, installs, maintains, tests, troubleshoots, and repairs industrial electrical equipment and associated electrical and electronic controls.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

The course recommendations in the chart are intended to help students choose courses that would most benefit them if their goal is to enter an apprenticeship upon graduation.

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Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

* This course is beneficial for a very limited number of concepts contained in its expectations; these may be acquired through self-study.

Industrial Mechanic Millwright

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Industrial Mechanic Millwright Apprenticeship** Length of Apprenticeship: 4 years Installs, repairs, and maintains complex machinery in a range of industries, including manufacturing, automotive parts and assembly, textiles, food processing, and mining and forest products.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics of Personal Finance, College Preparation MBF3C	College and Apprenticeship Mathematics, College Preparation MAP4C	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

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Machine-Tool Builder and Integrator

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Machine-Tool Builder and Integrator Apprenticeship** Length of Apprenticeship: 4 to 5 years Builds and integrates parts, components, and systems for both stand-alone machine tools and multi-station automated machine-tool systems used in all sectors of manufacturing, including assembly, processing, and fabricating systems.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics of Personal Finance, College Preparation MBF3C	College and Apprenticeship Mathematics, College Preparation MAP4C	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

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Mould Maker

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Mould Maker Apprenticeship** Length of Apprenticeship: 4 to 5 years Designs, makes, and repairs moulds and models to mass-produce plastic or metal components and products; sets up and operates precision machines and equipment to fabricate mould tooling.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics of Personal Finance, College Preparation MBF3C	College and Apprenticeship Mathematics, College Preparation MAP4C	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

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Pattern Maker

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Pattern Maker Apprenticeship** Length of Apprenticeship: 4 years Designs and creates foundry patterns and coreboxes so that parts and components can be cast from metal; works with precision machines and equipment to fabricate patterns and models for casting.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics of Personal Finance, College Preparation MBF3C	College and Apprenticeship Mathematics, College Preparation MAP4C	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

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Precision Metal Fabricator

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Precision Metal Fabricator Apprenticeship** Length of Apprenticeship: 3 to 4 years Fabricates metal products to close tolerances for custom and production sheet metal products used in electronics, computers, aircraft, and aerospace products, electrical cabinets, doors and frames, hospital and restaurant equipment, and equipment racking.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics of Personal Finance, College Preparation MBF3C	College and Apprenticeship Mathematics, College Preparation MAP4C	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

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Surface Mount Assembler

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Surface Mount Assembler Apprenticeship** Length of Apprenticeship: 2 years Solders, bonds, or assembles various electronic components such as transistors, diodes, capacitors, integrated circuits, wires, and other electronic parts.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

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Tool and Die Maker

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics of Personal Finance, College Preparation MBF3C	College and Apprenticeship Mathematics, College Preparation MAP4C
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education

Postsecondary Destination

Tool and Die Maker Apprenticeship

Length of Apprenticeship: 4 years

Designs, makes, modifies, and repairs dies, forms, cutting tools, gauges, jigs, and fixtures for the stamping industry; works with precision machines and equipment to make tooling and dies.

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Welder Fitter

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Welder Fitter Apprenticeship** Length of Apprenticeship: 3 years Joins two or more pieces of metal to make them act as one piece.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

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Motive Power Sector

Auto Body Repairer

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Auto Body Repairer Apprenticeship** Length of Apprenticeship: 3 to 4 years Reviews damages; estimates costs; repairs and replaces parts such as body and underbody components, doors, and door frames.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Auto Body Repairer and Collision Damage Repairer

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Auto Body Repairer and Collision Damage Repairer Apprenticeship** Length of Apprenticeship: 3½ years Fixes and restores damaged motor vehicle body parts and interior finishing.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Automotive Painter

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Automotive Painter Apprenticeship** Length of Apprenticeship: 2 years Paints vehicles; prepares automobile surfaces for painting by sanding then masking the work areas; using knowledge of how to treat different surfaces, such as steel, plastic, and aluminium, achieves durable, attractive finishes.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Automotive Service Technician

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Automotive Service Technician** Length of Apprenticeship: 3 to 5 years Inspects, diagnoses, repairs, and services mechanical, electrical, and electronic systems and components of cars, buses, and trucks.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Heavy Duty Equipment Technician

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Heavy Duty Equipment Technician Apprenticeship** Length of Apprenticeship: 4½ years Diagnoses, repairs, assembles and disassembles, maintains and modifies components and systems for large equipment used in the transportation, natural resources, construction, and materials handling industries.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Marine Engine Mechanic

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Marine Engine Mechanic Apprenticeship** Length of Apprenticeship: 2 years Repairs small boats; repairs, replaces and maintains outboard motors, stern drives, marine equipment, and motors for recreational vehicle pumps and generators.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Motorcycle Mechanic

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Motorcycle Mechanic Apprenticeship** Length of Apprenticeship: 2½ years Inspects, diagnoses, and repairs motorcycles.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

The course recommendations in the chart are intended to help students choose courses that would most benefit them if their goal is to enter an apprenticeship upon graduation.

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Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

* This course is beneficial for a very limited number of concepts contained in its expectations; these may be acquired through self-study.

Partsperson

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Partsperson Apprenticeship** Length of Apprenticeship: 2 years Orders, ships, receives, stores, displays, and sells parts and products for the automotive, motive power equipment, and heavy equipment sectors; provides parts in-house and to other customers.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

* This course is beneficial for a very limited number of concepts contained in its expectations; these may be acquired through self-study.

Small Engine Technician

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Small Engine Technician Apprenticeship** Length of Apprenticeship: 2 years Repairs, replaces, and maintains small engines used for pumps, hoists, lawnmowers, chain saws, and recreational vehicles
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

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Transmission Technician

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Transmission Technician Apprenticeship** Length of Apprenticeship: 3 years Repairs, overhauls, inspects, and maintains manual and automatic drive lines and differentials in motor vehicles.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

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Truck and Coach Technician

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education

Postsecondary Destination

Truck and Coach Technician Apprenticeship

Length of Apprenticeship: 5 years

Disassembles, adjusts, repairs, and reassembles engines, transmissions, clutches, rear ends, differentials, brakes, drive shafts, wheels and rims, axles, and other assemblies; diagnoses and corrects faults in alignments of wheels and steering, suspension systems, electrical systems, emission control and engine management systems, as well as air-conditioning and refrigeration/heating systems.

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Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

* This course is beneficial for a very limited number of concepts contained in its expectations; these may be acquired through self-study.

Truck-Trailer Service Technician

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Truck-Trailer Service Technician Apprenticeship** Length of Apprenticeship: 3 years Repairs, overhauls, inspects, and maintains suspension, brake, electrical, refrigeration, landing gear and couplers on single- or multi-axle trailers; overhauls and refits used and wrecked trailer bodies.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

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SERVICE SECTOR

Arborist

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Arborist Apprenticeship** Length of Apprenticeship: 3 to 4 years Plants, maintains, and removes woody plants, ranging from trees to shrubs.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Assistant Cook

Though the academic requirement for an apprenticeship in this trade is Grade 10, courses for higher grades are provided for the information of students pursuing secondary school graduation.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Assistant Cook Apprenticeship** Length of Apprenticeship: 1 year Prepares complete breakfasts, short-order grills, sandwiches, simple salads, simple desserts, vegetables, and non-alcoholic beverages; carves meats, poultry, fish, and game.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Baker

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Baker Apprenticeship** Length of Apprenticeship: 2 to 3½ years Produces and finishes cakes; produces icings, base fillings, and creams for baked goods; manages materials purchasing and storage, product costing, and marketing.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

Child and Youth Worker

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, College Preparation ENG3C *Additional:* Literacy Skills: Reading and Writing, Open ELS3O	English, College Preparation ENG4C *Additional:* Communication in the World of Business and Technology, Open EBT4O The Writer's Craft, College Preparation EWC4C	**Child and Youth Worker Apprenticeship** Length of Apprenticeship: 3 to 4 years Working in schools and hospitals or in residential, institutional, or community-based settings, encourages change in children and youth who are experiencing learning, social, emotional, or behavioural challenges in their lives.
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Cook

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Cook Apprenticeship** Length of Apprenticeship: 3 years Prepares complete meals or individual dishes and food items; plans menus; estimates food requirements and costs; monitors and orders supplies.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Early Childhood Educator

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, College Preparation ENG3C *Additional:* Literacy Skills: Reading and Writing, Open ELS3O	English, College Preparation ENG4C *Additional:* Communication in the World of Business and Technology, Open EBT4O The Writer's Craft, College Preparation EWC4C	**Early Childhood Educator Apprenticeship** Length of Apprenticeship: 3 to 4 years Working in child-care centres or facilities, and in pre-school sections of hospitals and schools, plans and leads age-appropriate programs for children that facilitate physical, social, emotional, and cognitive growth.
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Hairstylist

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Hairstylist Apprenticeship** Length of Apprenticeship: 4 years Cuts and styles hair; provides chemical services, such as permanent waving, straightening, and colouring.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Horticultural Technician

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Horticulturist Apprenticeship** Length of Apprenticeship: 2 to 3 years Identifies plants, pests, and materials; applies pesticides; removes and prepares plants and materials for shipping; propagates, cultivates, fertilizes, installs, maintains, and irrigates plants and turf grass; prunes plants; uses and operates tools and equipment used in horticulture; interprets and implements landscape drawings; installs natural stone, pre-cast stone, concrete, and wood for landscaping.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Network Cabling Specialist

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Network Cabling Specialist Apprenticeship** Length of Apprenticeship: 3 years Installs and maintains low-voltage communication or other signal source distribution systems that support voice, video, and data transmission within industrial, commercial, institutional, and office buildings and complexes.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Pool and Hot Tub / Spa Service Technician

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Pool and Hot Tub / Spa Service Technician Apprenticeship** Length of Apprenticeship: 2½ years Installs, repairs, and maintains all types of above-, on-, and in-ground pools, spas, and hot tub structures for both residential and commercial use.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D		Physics, College Preparation SPH4C*	
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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Students who complete technological education courses will benefit from them because of the additional preparation for apprenticeship training such courses offer. However, those students who cannot access these courses will still be well prepared for apprenticeships if they follow the pathways set out above.

* This course is beneficial for a very limited number of concepts contained in its expectations; these may be acquired -through self-study.

Retail Meat Cutter

The academic requirement for an apprenticeship in this trade is Grade 12.

Grade 9	Grade 10	Grade 11	Grade 12	Postsecondary Destination
English, Applied/Academic ENG1P/ENG1D	English, Applied/Academic ENG2P/ENG2D	English, Workplace Preparation ENG3E	English, Workplace Preparation ENG4E	**Retail Meat Cutter Apprenticeship** Length of Apprenticeship: 2 years Cuts, trims, and prepares standard cuts of meat, poultry, fish and shellfish for counters in butcher shops or supermarkets; directly serves customers.
Foundations/Principles of Mathematics, Applied/Academic MFM1P/MPM1D	Foundations/Principles of Mathematics, Applied/Academic MFM2P/MPM2D	Mathematics for Everyday Life, Workplace Preparation MEL3E	Mathematics for Everyday Life, Workplace Preparation MEL4E	
Science, Applied/Academic SNC1P/SNC1D	Science, Applied/Academic SNC2P/SNC2D	Science, Workplace Preparation SNC3E		
Experiential Learning Job Shadowing	*Experiential Learning* Work Experience	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	*Experiential Learning* Ontario Youth Apprenticeship Program / Cooperative Education	

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